

## Message Text

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C O N F I D E N T I A L SINAI 00582

FOR SSM ONLY

E.O. 11652: GDS  
TAGS: OGEN  
SUBJECT: WALLEN REPORT ON TDY PROJECTS

GQM SUMMARY: FROM WALLEN: TDY PROJECTS HAVE PROGRESSED ABOUT AS  
PLANNED. EVALUATION OF THE THERMAL IMAGERS HAS BEEN COMPLETED, AND  
PRELIMINARY DISCUSSIONS HAVE BEEN HELD WITH SFM PERSONNEL ON  
SUBJECTS OF REMOTE IMAGING SYSTEM, POWER DISTRIBUTION WITHIN BASE

MP AND NIRE PROTECTION FOR BASE CAMP.

2. EVALUATION OF THERMAL IMAGERS. BETWEEN MARCH 7 AN  
MARCH 14, WE HAD ALL KINDS OF WEATHER RANGING FROM VERY CLEAR TO

RAIN AND SEVERE DUST STORMS. THIS PERMITTED THE EVALUATION OF THE

THERMAL IMAGERS TO PROCEED AT A SOMEWHAT FASTER PACE THAN ANTICI-  
PATED. EVALUATION OF THE THERMAL IMAGERS WAS COMPLETED ON MARCH 15

ND UNITS HAVE BEEN PACKED FOR POUCHING BACK TO SSM. BOTH THE 3 TO  
5 MICROMETER AND THE 8 TO 14 MICROMETER SYSTEMS WERE EVALUATED  
AT ALL THREE WATCH STATIONS. VIDEO TAPE RECORDINGS OF THE IMAGERY  
FROM THE 8 TO 14 MICROMETER SYSTEM WERE TAKEN AT ALL THREE WATCH  
STATIONS. NO VIDEO RECORDINGS OF THE 3 TO 5 MICROMETER SYSTEM WERE  
MADE. BOTH THE 3 TO 5 AND THE 8 TO 14 MICROMETER SYSTEM ALLOWED  
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MUCH BETTER SURVEILLANCE THAN THE LONG RANGE NOD AT ALL RANGES  
UNDER LOW AMBIENT LIGHT LEVELS (I.E. CLEAR STARLIGHT NIGHTS WITH  
NO MOON). UNDER RELATIVELY HIGH AMBIENT LIGHT CONDITIONS (I.E.  
HALF MOON OR BRIGHTER) AND CLEAR ATMOSPHERE THE OBSERVATION CAPABI-

LITY PROVIDED BY THE LONG RANGE NOD AT RANGES UP TO ONE KILOMETER IN

EQUAL TO OR GREATER THAN THAT PROVIDED BY THE THERMAL IMAGERS. LIGHT SOURCES WITHIN THE FIELD OF VIEW SERIOUSLY DEGRADE THE IMAGERY FROM THE LONG RANGE NOD, BUT THEY HAVE NO EFFECT ON THE THERMAL IMAGER. THE MAXIMUM DETECTION AND IDENTIFICATION RANGE OF THE THERMAL IMAGER IS REDUCED DURING CONDITIONS OF POOR

VISIBILITY, BUT NOT NEARLY SO MUCH AS THAT OF THE LONG RANGE NOD. UNDER GOOD VIEWING CONDITIONS LARGE, MEDIUM AND SMALL OBJECTS WERE DETECTED AND IDENTIFIED AT RANGES OF 30, 10 AND 2 KILOMETERS, RESPECTIVELY. UNDER VERY POOR VISIBILITY CONDITIONS THE DETECTION AND IDENTIFICATION RANGES WERE REDUCED TO ABOUT HALF THOSE FOR GOOD

VISIBILITY CONDITIONS. THE 8 TO 14 MICROMETER SYSTEM GAVE A GREATER RANGE AND WAS EASIER FOR THE OPERATOR TO USE THAN THE 3 TO 5 MICROMETER SYSTEM. THIS APPEARED TO BE MAINLY DUE TO THE DIFFERENCE

IN DESIGN OF THE SYSTEM OPTICS. THE 8 TO 14 MICROMETER SYSTEM HAS A WIDE FIELD OF VIEW FOR SCENE ORIENTATION AND DETECTION AND A NARROW FIELD OF VIEW FOR IDENTIFICATION AND TRACKING. THE 3 TO 5 MICROMETER SYSTEM HAS A SINGLE FIELD OF VIEW WHICH IS A COMPROMISE BETWEEN THE WIDE AND NARROW OF THE 8 TO 14 SYSTEM. THE 8 TO 14 MICROMETER SYSTEM IS MORE SUITABLE FOR THE SFM SURVEILLANCE NEEDS, AND WOULD BE A GOOD COMPLEMENT TO THE LONG RANGE NOD.

3. REMOTE IMAGING - BRIEF DISCUSSIONS HAVE BEEN HELD WITH SFM  
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STAFF ON REMOTE IMAGING SYSTEM. SNM EXPRESSED INTEREST IN HAVING A VIDEO MONITOR LOCATED ALONGSIDE THE CENTRALIZED MAP DISPLAY SO THAT PERSONNEL IN THE OPERATIONS ROOM CAN CORRELATE SENSOR ACTIVATIONS WITH ACTION IN THE GIDDI WEST FIELD. THIS MAY BE DONE EITHER OF TWO WAYS. FIRST, IF THE REMOTE IMAGING RELAY CAN BE LOCATED AT OR NEAR BASE CAMP A VIDEO LINE CAN BE TAKEN DIRECTLY FROM THE RELAY TO DRIVE A MONITOR. IF THERE IS NOT LINE OF SIGHT

FROM THE REMOTE IMAGING CAMERA TOWER TO BASE CAMP, THE RELAY WILL HAVE TO BE LOCATED ON A HILL SOUTHEAST OF BASE CAMP. SEVERAL OF THESE HILLS APPEAR TO HAVE LINE OF SIGHT TO THE GIDDI WEST SENSOR FIELD, GIDDI EAST WATCH STATION AND BASE CAMP. OUR SECOND APPROACH TO BRINGING VIDEO SIGNAL TO BASE CAMP IS TO UTILIZE THE SECOND SYSTEM RELAY TO GO BETWEEN BASE CAMP AND THE PRIMARY RELAY SITE WHICH TIES THE GIDDI

WEST SENSOR FIELD TO THE GIDDI EAST WATCH STATION. VEAK, WRIGHT AND WALLIN WILL BEGIN SURVEY TODAY TO LOCATE PRIMARY RELAY SITE AND WILL INFORM YOU SOONEST WHETHER IT CAN BE LOCATED AT BASE CAMP OR WHETHER MUST BE LOCATED ON ONE OF THE SURROUNDING HILLS. MEANWHILE, REQUEST THAT LES JACOBS DISCUSS WITH TENDOEPEL OF NVL THE REQUIREMENTS FOR LOCATING AUXILIARY

MONITOR FOR REMOTE IMAGING SYSTEM IN COMM/OPS. IT SHOULD BE EMPHASIZED THAT ONLY A MONITOR WITHOUT ANY REMOTE CONTROL CAPABILITY IS TO BE LOCATED IN COMM/OPS. THE SYSTEM CONTROLS WILL STILL BE LOCATED IN GIDDI EAST WATCH STATION AS PLANNED.

4. POWER DISTRIBUTION - MODIFICATION OF THE POWER DISTRIBUTION FROM THE C&R EMERGENCY GENERATOR HAS BEEN DISCUSSED WITH C&R PERSONNEL AND BRIEFLY WITH SFM STAFF. THE MOST SUITABLE LOCATION FOR THE RELAY WHICH AUTOMATICALLY SPLITS THE USG ADMINISTRATION

BUILDING POWER WHEN A PRIMARY POWER FAILURE OCCURS IS IN THE CLOSETS IN MR. ROBERTS' OFFICE. ADMINISTRATIVE CONTROL OF THIS  
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RELAY WILL BE DISCUSSED WITH MR. HUNT AS SOON AS POSSIBLE AND I WILL INFORM YOU OF THIS DISCUSSION. I HAVE STUDIED OTHER PARTS OF

THE PRIMARY POWER DISTRIBUTION SYSTEM FOR SFM AND FOUND ANOTHER POTENTIALLY SERIOUS PROBLEM. THE CONNECTED LOAD FOR THE COMMUNITY CENTER EXCEEDS THE POWER CAPABILITY OF ONE OF OUR 500 KW GENERATORS. WHEN WE ARE DOWN TO ONE GENERATOR, WHICH IS THE CASE AT THE

PRESENT TIME, IT IS POSSIBLE FOR THE COMMUNITY CENTER ALONE TO OVERLOAD THE GENERATOR IF CONSUMPTION IS NOT WATCHED

AND KNOCK IT OFF THE LINE. THE POWER PLANT HAS NO DIRECT CONTROL OVER THIS SITUATION SINCE THE POWER FOR THE COMMUNITY CENTER IS ONE ONE BREAKER IN THE POWER PLANT. THIS

IS A POTENTIALLY TROUBLESOME SITUATION WHICH SHOULD BE CORRECTED. I HAVE DISCUSSED THIS SITUATION WITH THE POWER PLANT OPERATORS AND LEN VEAK AND THEY CONCUR THAT THE SITUATION SHOULD BE REMEDIED. WHEN I RETURN TO SSM I WILL WRITE A MEMO TO MR. PENDLETON RE-

QUESTING THAT E-SYSTEMS BE TASKED TO DESIGN AND INSTALL EQUIPMENT WHICH WILL GIVE THE POWER PLANT MORE CONTROL OVER THE DISTRIBUTION OF POWER IN THE COMMUNITY CENTER.

5. FIRE PROTECTION - I HAVE DISCUSSED WITH E-SYSTEMS SFM A PLAN WHICH THEY ARE DRAWING UP TO CONVERT THE FIRE STATION INTO LABORATORY SPACE. THIS RAISED THE QUESTION OF HOW FIRE PROTECTION WOULD BE PROVIDED IF THE FIRE STATION IS USED FOR OTHER PURPOSES,

AND PROMPTED ME TO LOOK INTO THE OVERALL SITUATION CONCERNING FIRE

PROTECTION EQUIPMENT. I SHALL BE LOOKING WITH MR. HUNT AND MR.  
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ROBERTS OVER THE NEXT FEW DAYS TO ASSSS THE SFM FIRE PROTECTION  
NEEDS AND THE ADEQUACY OF THE PRESENT EPUIMENT AND PROCEDURES. I  
WILL REPORT ON THIS SUBJECT ON MY RETURN TO SFM.

6. FYI: THE CENTRALIZED MAP DISPLAY IS OPERATING JUST AS IT DID  
WHEN JACOBS DEPARTED. WE STILL NEED THE OTHER TWO CONTROLLERS  
TO MAKE IT FULLY FUNCTIONAL. ANY RECENT INFORMATION ON THE

STATUS ON THESE CONTROLLERS WOULD BE APPRECIATED.  
ROBERTS

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